

Appln No. 10/615,635
Amdt date December 22, 2004
Reply to Office action of August 27, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A position location device comprising:
 a waterproof housing;
 a processor contained within the waterproof housing;
 a global positioning system receiver contained within the waterproof housing and connected to the processor; and
 a pressure transducer connected to the processor;
 wherein the global positioning system receiver includes an antenna; and
 wherein the pressure transducer is configured to measure depth under water.
2. (Cancelled)
3. (Original) The position location device of claim 1, further comprising:
 clock circuitry connected to the processor; and
 memory connected to the processor; and
 at least one input/output device connected to the processor.
4. (Original) The position location device of claim 3, wherein one of the input/output devices is a microphone.
5. (Original) The position location device of claim 3, wherein one of the input/output devices is a keypad including at least one button.
6. (Original) The position location device of claim 1, further comprising:
 a flow meter connected to the processor; and
 a compass connected to the processor.

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7. (Currently Amended) The position location device of claim 6, wherein the flow meter is an impeller.
8. (Cancelled)
9. (Currently Amended) The position location device of claim 6, further comprising:
a second pressure transducer in communication with [connected] the processor; and
wherein the pressure transducer is configured to generate a signal indicative of air pressure within an air tank.
10. (Original) The position location device of claim 1, further comprising a digital camera connected to the processor.
11. (Currently Amended) A position location device comprising:
means for measuring latitude and[,] longitude;
means for measuring depth underwater;
means for measuring time; and
means for recording measurements of latitude, longitude, depth and time;
wherein the means for measuring latitude and longitude, the means for
measuring time and the means for recording measurements are contained within a
waterproof housing.
12. (Original) The position location device of claim 11, further comprising means for annotating recorded measurements of latitude, longitude, depth or time.
13. (Original) The position location device of claim 11, further comprising means for identifying a particular measurement of latitude, longitude, depth or time as being associated with a particular point of interest.
14. (Original) The position location device of claim 11, wherein the time includes information concerning day, month and year.

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15. (Original) The position location device of claim 11, further comprising:
means for measuring water speed; and
means for measuring bearing.
16. (Original) The position location device of claim 15, further comprising means for measuring air time remaining.
17. - 23. (Cancelled)
24. (Currently Amended) A method of recording data, comprising:
performing a first measurement of latitude, longitude and time;
recording information indicative of the first measurement of latitude,
longitude and time in a memory;
descending underwater; [and]
measuring depth and time; and
recording information indicative of the depth and time measurements in
the memory.
25. (Currently Amended) The method of claim 24, further comprising:
resurfacing; [and]
performing a second measurement of latitude, longitude and time; and
recording information indicative of the second measurement of latitude,
longitude and time in the memory.
26. (Cancelled)
27. (Currently Amended) The method of claim 25[6], further comprising [the step of]
identifying a particular measurement of latitude, longitude and time or measurement of
depth and time as being associated with a particular point of interest.

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28. (Currently Amended) The method of claim 27, further comprising [the step of] recording descriptive information that is associated with the identified measurement of latitude, longitude and time or measurement of depth and time.

29. (Original) The method of claim 28, wherein recording descriptive information involves recording signals indicative of speech.

30. (Original) The method of claim 24, wherein the time includes information concerning day, month and year.

31. (Original) The method of claim 24, wherein:

the measurements of latitude, longitude and time are made using a global positioning system receiver adapted to be taken below the surface of the water; and

the measurements of depth are made using a pressure transducer.

32. (Original) The method of claim 24, further comprising periodically measuring water speed and bearing.

33. (Original) The method of claim 32, further comprising:

measuring average speed;

measure air time remaining; and

estimate range based on average speed and air time remaining calculations.

34. (Cancelled)